

APPLICATION NOTE NO. 23

TAKING PROXIMITY SENSING TO A NEW DIMENSION

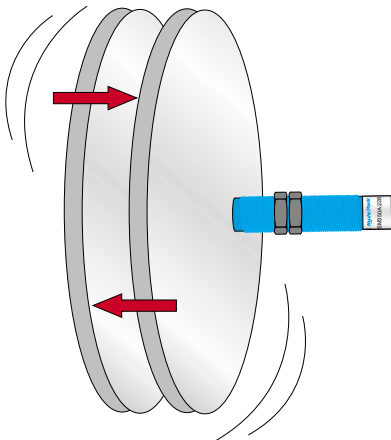
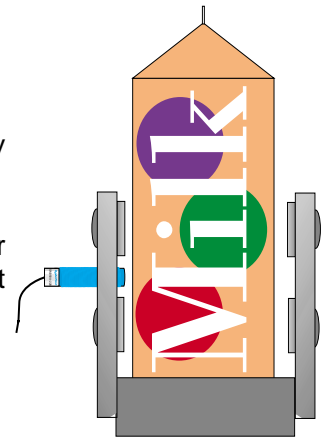
Proximity sensing is taken to a new dimension with the new SUPERPROX[®] SM300 Sensor Series. The SM300 proximity sensor offers a 12 mm threaded barrel housing, an extended range of up to 51 mm (2 inches), multi-material capability and reliable detection in harsh environments. This incredible new sensor picks up where other sensing technologies leave off. Shown below are just a **few** of the applications currently being solved with the new SM300 sensor series.

Container Detection

Previous sensing technology: Photoelectric

Challenges: The darker colors on the container required increased intensity adjustment of the sensor causing it to detect the stainless steel background.

Why SUPERPROX SM300: The SM300 reliably detects regardless of container shape, size, color or composition eliminating the need for sensor readjustment and the resulting downtime.



Metal Material Detection

Previous sensing technology: Inductive

Challenges: When the spring-loaded conveyor clutch plates opened, the sensor face would be damaged due to the close mounting requirements of the inductive sensor.

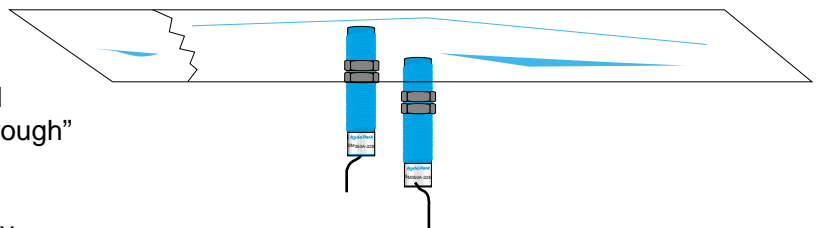
Why SUPERPROX SM300: The SM300 has a sensing range of up to 51 mm (2 inches) allowing the sensor to be backed away from the opened clutch plates placing the sensor out of harm's way and reducing sensor replacement costs.

Web Break Detection

Previous sensing technology: Photoelectric

Challenges: The clear, plastic material caused the sensor to have false alarms due to "burn through" and reflectivity problems.

Why SUPERPROX SM300: The SM300 reliably detects regardless of web product color or material eliminating false alarms that caused inefficiencies, downtime and product loss.



Another sound solution from... **The World Leader in Ultrasonic Sensing.**